

COATING DEVICE AND METHOD USING PICK-AND-PLACE DEVICES HAVING EQUAL OR SUBSTANTIALLY EQUAL PERIODS

Abstract

- 5 [0135] A sufficient number of pick-and-place devices (e.g., rolls) whose periods of contact with a substrate are equal or substantially equal to one another are used to form continuous void-free uniform coatings despite the occurrence of unintended or intended coating caliper surges, depressions or voids. The wetted surfaces of the devices contact and re-contact the coating at positions on the substrate that are
- 10 different from one another. Extremely uniform and extremely thin coatings can be obtained at very high rates of speed. The pick-and-place devices also facilitate drying and reduce the sensitivity of drying ovens to coating caliper surges. Equipment containing the pick-and-place devices is simple to construct, set up and operate, and can easily be adjusted to alter coating thickness and compensate for coating caliper
- 15 variations.